Configuring CoS Rewrite Rules (NSM Procedure)

You configure rewrite rules to alter CoS values in outgoing packets on the outbound interfaces of a device to match the policies of a targeted peer. Policy matching allows the downstream router in a neighboring network to classify each packet into the appropriate service group.

In addition, you often need to rewrite a given marker such as IP precedence, DSCP, or IEEE 802.1p at the switch's inbound interfaces to accommodate behavior aggregate (BA) classification by core devices.

You do not need to explicitly apply rewrite rules to interfaces. By default, rewrite rules are applied to routed packets.

To configure CoS rewrite rules:

1. In the navigation tree, select **Device Manager > Devices**
2. Click the **Device Tree** tab, and then double-click the device for which you want to configure CoS rewrite rules.
3. Click the **Configuration** tab. In the configuration tree, expand **Class of Service**
4. Select **Rewrite Rules**.
5. Add or modify settings as specified in Table 1.
6. Click one:
   - OK—Saves the changes.
   - Cancel—Cancels the modifications.

NOTE: After you make changes to a device configuration, you must push that updated device configuration to the physical security device for those changes to take effect. You can update multiple devices at one time. See the *Network and Security Manager Administration Guide* for more information.

Table 1: Configuring and Applying Rewrite Rules

Task	Action
Configure rewrite rules for DiffServ CoS.	1. Click **Configure** next to Rewrite Rules. 2. Click **Add new entry** next to Dscp. 3. In the Name box, type the name of the rewrite rules—for example, **rewrite-dscps**.

Table 1: Configuring and Applying Rewrite Rules *(continued)*

Task	Action
Configure best-effort forwarding class rewrite rules.	1. Click **Add new entry** next to Forwarding class. 2. In the Queue num box, type **1**. 3. In the Class name box, type the name of the previously configured best-effort forwarding class—for example, **be-class**. 4. Click **Add new entry** next to Loss priority. 5. From the Loss val list, select **low**. 6. In the Code point box, type the value of the low-priority code point for best-effort traffic—for example, **000000**. 7. Click **OK**. 8. Click **Add new entry** next to Loss priority. 9. From the Loss val list, select **high**. 10. In the Code point box, type the value of the high-priority code point for best-effort traffic—for example, **000001**. 11. Click **OK** twice.
Configure expedited forwarding class rewrite rules.	1. Click **Add new entry** next to Forwarding class. 2. In the Class name box, type the name of the previously configured expedited forwarding class—for example, **ef-class**. 3. Click **Add new entry** next to Loss priority. 4. From the Loss val list, select **low**. 5. In the Code point box, type the value of the low-priority code point for expedited forwarding traffic—for example, **101110**. 6. Click **OK**. 7. Click **Add new entry** next to Loss priority. 8. From the Loss val list, select **high**. 9. In the Code point box, type the value of the high-priority code point for expedited forwarding traffic—for example, **101111**. 10. Click **OK** twice.

Table 1: Configuring and Applying Rewrite Rules *(continued)*

Configure assured forwarding class rewrite rules.	1. Click **Add new entry** next to Forwarding class. 2. In the Class name box, type the name of the previously configured expedited forwarding class—for example, **af-class**. 3. Click **Add new entry** next to Loss priority. 4. From the Loss val list, select **low**. 5. In the Code point box, type the value of the low-priority code point for assured forwarding traffic—for example, **001010**. 6. Click **OK**. 7. Click **Add new entry** next to Loss priority. 8. From the Loss val list, select **high**. 9. In the Code point box, type the value of the high-priority code point for assured forwarding traffic—for example, **001100**. 10. Click **OK** twice.
Apply rewrite rules to an interface.	1. Click **Add new entry** next to Interfaces. 2. In the Interface name box, type the name of the interface—for example, **ge-0/0/0**. 3. Click **Add new entry** next to Unit. 4. In the Unit number box, type the logical interface unit number—for example, **0**. 5. Click **Configure** next to Rewrite rules. 6. In the Rewrite rules name box, under Dscp, type the name of the previously configured rewrite rules—for example, **rewrite-dscps**. 7. Click **OK**.

Related Topics

- Configuring CoS Classifiers (NSM Procedure)
- Configuring CoS Code Point Aliases (NSM Procedure)
- Configuring CoS Drop Profile (NSM Procedure)
- Configuring CoS Forwarding Classes (NSM Procedure)
- Configuring CoS Interfaces (NSM Procedure)
- Configuring CoS Schedulers (NSM Procedure)
- Configuring CoS and Applying Scheduler Maps (NSM Procedure)

Published: 2009-08-23